PATENT ABSTRACTS OF JAPAN

(11)Publicati n number:

07-108624

(43) Date of publicati n of appli ation: 25.04.1995

)int.Ci.

B29D 11/00 B29C 39/10 GD2B 5/00 // B29L 11:00

1)Application number: 05-277778

(71) Applicant : OLYMPUS OPTIOAL CO LTD

!)Date of filing:

08.10.1993

(72)inventor: TERAMOTO SATOSHI

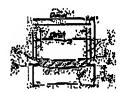
1) MANUFACTURE OF COMPOSITE OPTICAL ELEMENT

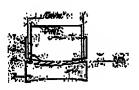
1)Abstract:

IRPOSE: To allow an entire alde face of a reain layer arrive at an outside of an optical effective diameter thout increasing an outer diameter of a base material forming a desired resin layer in moids for an optical ament when a difference obstween an effective ameter of a surface of the layer and a diameter of a se material of the element to an unevenness Δx of a aximum diameter of the layer is large and setting a piding surface interval of a part out of an effective ameter of the moids and a molding surface of the same as material to a formula or less.

ONSTITUTION: When an interval between a base aterial 2 and a moid 1 is (t), the mold 1 is pressed to sa an intermediate part 6a of a reain layer 3 at the

of molding to a central exist side. When a maximum ameter of the layer 3 is Dmax, a minimum diameter is min and its difference is, ΔD , at the time of 0.5t of the terval, its maximum diameter is D'max, its minimum ameter is D'min, and its difference is $\Delta D'$, $\Delta D = 2\Delta D'$ is





AND THE PARTY OF T

Itisfied, When the (t) is set to a half, $\Delta D/2$ becomes about a half, and relationship of (t)= 32.4 + 76 ΔD is satisfied. Accordingly, when a difference of the effective diameters is δ , an interval of it of the effective diameters may be set to (32.4 + 3.76 δ) or less. In fact, since unevenness of is Δx occurs in the maximum diameter of the layer, it is necessary to set the interval to 12.4+3.76 (μ - Δx) μ m or less.

EGAL STATUS

BEST AVAILABLE COPY

ite of sending the examiner's decision of sotion]

nd of final disposal of application or than examiner's decision of rejection or ali ation converted registration]

ate of final disposal for application]

atent number]

ate of registration]

or.09.2001

ate of appeal against examiner's decision rejection]

ate of requesting appeal against examiner's cision of rejection]

ate of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office

BEST AVAILABLE COPY

0 日本国特許庁(J P)

(12) 公開特許公報(A)

(11)特許出版公田番号

岭開平7-108624

(43)公留日 平成7年(1995) 4月25日

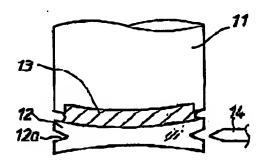
G02B 5	1/00 9/10 5/00 1: 00	酸別配号	庁内務取役号 2126-4F 2126-4F 6224-2K	FI	技術表示箇所	
				等在西京	朱龍珠 前珠項の数1 FD (全 7 頁)	
()出庭彩号		特惠平5-277778		(71) 出國人	000000878 オリンパス光学工業株式会社	
8) 出鎮日		平成5年(1993)10月8日		(72)	東京都決合区階ヶ谷 2 丁目43番 2 号 寺本 動	
			•	(A) Albarra	東京都铁谷区階ヶ谷2丁目43番2号 オリンパス光学工業株式全社内	
				(74)代理人	外继士 茶点 武	

は) [発明の名称] 複合理光学素子の製造方法

7)【英約】

目的】 樹脂層側面の最大後と最小後との差を小さく る。これにより、樹脂層の有効後と基材をとの差を小 くし、製品のよりいっそうのコンパクト化を可能とす

構成》 金型11は上下助自在に保持され、金型11 光学面の有効径の外周部分は基材との問隔が有効径内 部分よりも狭くなる様に突出した形状に形成されてい



BEST AVAILABLE COPY